

CASES 95-C-0657, 94-C-0095, 91-C-1174, AND 96-C-0036
RESPONSIVE TESTIMONY OF BELL ATLANTIC – NEW YORK TO THE
AT&T/MCI COLLOCATION COST MODEL AND SUPPORTING
TESTIMONY

1 D. THE MODEL OMITS SECURITY COSTS

2 Q. DOES THE MODEL ACCOUNT FOR SECURITY ACCESS COSTS
3 ACCURATELY?

4 A. No. BA-NY has legitimate reasons for protecting its network from
5 unrestricted access by collocators. Although AT&T/MCI admit that BA-NY
6 "is entitled to ensure its equipment areas are secure,"²⁸ the Model fails to
7 include the costs BA-NY will incur on a forward-looking basis to secure its
8 equipment and network.²⁹
9 According to AT&T/MCI, the cost of such security is already included in
10 the cost of the instantaneously-created imaginary central office.³⁰ More
11 specifically, the Model assumes without any support whatsoever that the
12 cost of electronic security access systems are included in the basic per
13 square foot cost of a central office building, and therefore are included in
14 the Model's per square foot rent charge. Given that the R.S. Means data
15 is from an era before such systems were generally deployed, such an
16 assumption is invalid.

²⁸ Ex. RB-1 at 53.

²⁹ Interestingly, the Model includes the costs associated with preventing BA-NY and other personnel from accessing the *collocator's* equipment by including the costs for a collocation cage.

³⁰ BA-NY includes security costs in its room construction charges, which are determined on a case-by-case basis.

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1 Further, AT&T/MCI's theory of recovering security costs relies on the
2 strategic placement of collocation space near cross-connection bays as
3 well as near an exterior wall or corridor to permit unrestricted access.
4 This configuration is not feasible in most cases.

5 But even if "ideal" collocation space (as described by the Model) were
6 available in all central offices in New York, the Company may still need to
7 install an access door and card swipe mechanisms or other security
8 measures such as coded locks in order to ensure the security of its
9 equipment to which the Model's developers admit it is entitled. Moreover,
10 BA-NY may also be required to construct additional doors, hallways or
11 drywall partitioning to provide secure access. These costs are not
12 included in the Model. BA-NY is entitled to recover these costs from the
13 cost causer – the collocator.

14 Q. WHY DOES BA-NY PROVIDE THE COLLOCATORS WITH SECURE
15 ACCESS TO BA-NY'S CENTRAL OFFICES?

16 A. BA-NY provides collocators with access only to those portions of the
17 central office necessary to reach the collocation cage. The collocator may
18 not gain access to other parts of BA-NY's central office. BA-NY takes its
19 obligation to protect the network very seriously. AT&T severely restricts
20 access by BA-NY personnel in those locations where BA-NY has

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1 equipment on AT&T's premises in an effort to maintain security. BA-NY's
2 legitimate security needs are no less.

3 Q. WHY NOT JUST ESCORT THE COLLOCATOR TO THE COLLOCATION
4 AREA EVERY TIME IT WANTS TO ACCESS ITS EQUIPMENT?

5 A. Such a requirement would be burdensome and inefficient. BA-NY is not
6 in the security business. In addition, some of the central offices where
7 collocators have requested collocation are not staffed by BA-NY
8 employees 24 hours a day, 7 days a week. Providing secured access to
9 the collocation space allows the collocator to provision and maintain the
10 collocated equipment in accordance with the scheduling and demand
11 requirements of the specific collocator, without burdening BA-NY
12 employees to be baby sitters.

13 Q. HOW DOES BA-NY DETERMINE WHERE TO PUT THE COLLOCATION
14 ROOM IN A CENTRAL OFFICE?

15 A. The collocator's equipment generally must be placed in a location so that
16 BA-NY may protect its equipment from unauthorized access by the
17 collocators' employees, as well as provide power and other services to the
18 collocator. Thus, although it may be possible to place a collocator closer
19 to BA-NY's transmission equipment, the construction costs associated
20 with providing both secure access and protection of BA-NY space will
21 often outweigh the costs of additional cabling that may be required to

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1 provide physical collocation space farther away from BA-NY's cross-
2 connect frames.

3 Q. WOULD INSTALLING A CARD READER AT THE ENTRANCE OF THE
4 CENTRAL OFFICE PROVIDE SUFFICIENT SECURITY?

5 A. No. Merely installing a card reader system at the entrance of the central
6 office is not sufficient to protect BA-NY's equipment from access by
7 collocators. BA-NY may also be required to secure other rooms,
8 entranceways and hallways *within* the central office. This could require
9 adding circuitry as well as card readers throughout a central office
10 building, depending on where a collocation cage is sited. Card access
11 systems must include, at a minimum, the cost of a single access card
12 reader, electric door hardware and associated wiring. Moreover, in many
13 cases, the existing system will not support new readers without the
14 addition of a supplemental control panel (because the existing system has
15 reached its capacity).

16 **E. THE MODEL'S POWER PLANT DESIGN IS FLAWED AND ITS POWER COSTS ARE**
17 **UNDERSTATED**

18 Q. ARE THE POWER COSTS CALCULATED ACCURATELY IN THE
19 MODEL?

20 A. No. The Model's power plant design is flawed. In addition, the Model's
21 power investments are understated because, among other things, it
22 miscalculates unit costs.

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1 Q. PLEASE DESCRIBE YOUR ANALYSIS OF THE MODEL'S POWER
2 PLANT.

3 A. The maximum size of a power plant is determined by the amperage
4 capacity of the microprocessor. Typically, if BA-NY determines that 1200
5 amps are required at the time of the switch and power plant installation,
6 then BA-NY's engineers would place a 2600 amp microprocessor at the
7 time of the power plant installation. This is done to allow for power plant
8 growth. The remaining elements of the power plant such as the rectifiers
9 and the batteries will carry an amperage rating in the neighborhood of
10 1200 amps.

11 Q. WHAT IS THE AMPERAGE RATING OF THE MICROPROCESSOR
12 CONTAINED IN THE AT&T/MCI COST MODEL?

13 A. BA-NY has been unable to determine precisely the amperage rating of the
14 Model's microprocessor. It can be assumed however that the power
15 distribution center ("PDC") in the AT&T/MCI Model (BU # 11) includes the
16 microprocessor, as well as the power distribution service cabinet ("PDSC")
17 and the power plant distribution bay ("PDB"). If this is true, then the
18 investments for the PDC represented in the AT&T/MCI Model are grossly
19 understated. BA-NY has asked for this information in a data request,
20 which was due May 7, 1998.

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1 Q. WHAT INVESTMENT IS INCLUDED FOR THE PDC IN THE AT&T/MCI
2 COST MODEL AND HOW DOES THAT INVESTMENT COMPARE WITH
3 BA-NY'S DISCOUNTED VENDOR MATERIAL PRICES?

4 A. The material investment is listed as \$7,000. In contrast, BA-NY's vendor
5 discounted material investment included in the 2600 amp power plant
6 (BA-NY's cost study) for the microprocessor is \$17,500. If the
7 investments for the above mentioned PDSC and PDB (\$4,000 and
8 \$15,000 respectively) were included in BA-NY's estimate, then the total
9 investment is \$36,500 or about 5 times the costs included in the Model.

10 Q. WHAT DO YOU CONCLUDE FROM THE ANALYSIS OF THE POWER
11 PLANT SIZE AND THE MICROPROCESSOR?

12 A. As stated above, either the investment in the PDSC and PDB are
13 assumed to be included in the Model's PDC – in which case the
14 investments mirror nothing close to what BA-NY believes the investment
15 should be -- or the equipment is missing entirely from AT&T/MCI's cost
16 analysis. The Model relied on an estimate from a vendor – Primal
17 Communications – which is not even located in New York. BA-NY's
18 power costs, by contrast, are based on actual New York vendor
19 information.

20 Q. PLEASE DESCRIBE YOUR ANALYSIS OF THE MODEL'S BATTERY
21 COSTS.

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1 A. The model purports to use Absolyte batteries in their power plant (BU #
2 11). These batteries are typically used for outside plant and small
3 customer premises applications, but are not generally approved for use in
4 BA-NY central offices for support of switching and transport equipment.

5 Q. WHY ARE ABSOLYTE BATTERIES NOT APPROPRIATE FOR USE IN
6 CENTRAL OFFICES?

7 A. BA-NY power engineers have concluded that this type of battery provides
8 limited capacity compared to the wet cell lead acid batteries traditionally
9 used by ILECs. Absolyte batteries also are much more prone to failure
10 and leakage and present a higher risk to service. In addition, the batteries
11 used by BA-NY have a greater life cycle and reliability. It has been BA-
12 NY's experience that Absolyte or similar batteries typically last 7 years or
13 less. In contrast, the batteries used by BA-NY last from 15 to 20 years or
14 more.

15 Q. PLEASE DESCRIBE YOUR ANALYSIS OF THE MODEL'S STANDBY
16 GENERATOR COSTS.

17 A. The Model includes an investment in a standby generator of \$84,000 for
18 the 2500 amp plant. That investment includes the fuel tank, Switchboard
19 Equipment (BA-NY assumes automatic circuit breakers), and AC entrance
20 cable. From the Model's backup documentation (BU # 11), it appears that
21 the installed investment in the 400 kw (kilowatt) standby generator is

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1 \$165,000. The Model further calculates investments for the fuel tank,
2 Switchboard Equipment (automatic circuit breakers), and AC entrance
3 cable of \$115,000, for a total investment of \$280,000.

4 This value is divided by the kilowatt rating of the standby generator to
5 determine a cost per watt and multiplied by the watts per amp to
6 determine a cost per -48 volt DC amp. The formula is as follows:

7 (Investment/kilowatts) * watts per amp = invest. per -48 DC amp

8 or

9 $(\$280,000/400,000) * 48 = \33.60 per -48 DC amp

10 (Digital switches run on -52.2 volts, not the -48 volts, so Mr. Bissell
11 calculation should be multiplied by 52.2.)

12 The Model then multiplies the derived investment per —48 volt DC amp by
13 the number of amps required in the plant to derive a total installed
14 investment for the standby generator, the fuel tank, Switchboard
15 Equipment, and AC entrance cable ($\$33.60 * 2500 \text{ amps} = \$84,000 \text{ total}$
16 investment).

17 Q. WHAT IS WRONG WITH CALCULATING INVESTMENTS FOR THE
18 STANDBY GENERATOR, FUEL TANK, SWITCHBOARD EQUIPMENT,
19 AND AC ENTRANCE CABLE AS DESCRIBED ABOVE?

20 A. The fuel tank and the AC entrance cable are part of the buildings account,
21 not the power equipment account, so they should not even be included in

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1 the calculation. Including those allegedly lower investment items in the
2 equation dilutes the calculated investment in the remaining items – the
3 standby generator and the switchboard equipment. If the investment in
4 the standby generator truly is \$165,000, then its unit specific investment
5 per amp should be calculated individually.

6 Additionally, inherent in this calculation is the assumption that the fuel
7 tank, AC entrance cable, the standby generator and the switchboard
8 equipment have a linear relationship to amperage capacity. That
9 assumption makes no sense at all. As stated above, the fuel tank and AC
10 entrance cable are buildings account-related, and do not belong in the
11 standby generator equation at all. The switchboard equipment, on the
12 other hand, is a integral part of the power plant. The investment for this
13 item can range from \$40,000 for a 1200 amp breaker, to \$50,000 for a
14 1600 amp breaker, to \$150,000 for a 3200 amp breaker. Accordingly,
15 there plainly is not a linear relationship between amperage capacity and
16 investments.

17 The only reasonable way to quantify power investments is through
18 individual purchases or estimates of individual purchases. AT&T/MCI are
19 understating material and installed investments for critical components of
20 the power plant and diluting those investments by including investments in
21 unrelated components (fuel tanks and AC entrance cable) to do so. The

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1 calculation of power plant investments therefore is flawed and should be
2 rejected in its entirety.

3 Q. DO YOU SEE ANY OTHER PROBLEMS REGARDING THE STANDBY
4 POWER EQUIPMENT?

5 A. Yes. The –48 volt emergency lighting and conduit are missing from the
6 power calculation. These costs are an integral part of an emergency
7 power plant and should be included in a cost study. BA-NY calculates
8 these costs to range from \$20,000 to \$115,000 depending on the density
9 zone.³¹

10 Q. MR. BISSELL STATES THAT THE INVESTMENT FOR THE STANDBY
11 GENERATOR IS \$84,000 (INSTALLED), APPARENTLY INCLUSIVE OF
12 SWITCHBOARD EQUIPMENT, FUEL TANK AND A/C ENTRANCE
13 CABLE. HOW DOES MR. BISSELL'S INVESTMENT COMPARE WITH
14 BA-NY'S INVESTMENTS FOR THESE ITEMS?

15 A. Mr. Bissell's investment is grossly understated. For an urban power plant
16 (2600 amps), BA-NY's cost study includes a discounted material
17 investment for a standby generator of \$38,200 and \$40,000 for the
18 automatic breakers, for a total material investment of \$78,000. Adding the
19 above described conduit and emergency lighting costs of \$30,000, would

³¹ Panel Testimony of Bell Atlantic - New York on Costs and Rates for Physical and Virtual Collocation, filed March 27, 1998, Workpaper 1.0, Part A, Section 1, Page 4, Line 26 across.

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1 bring the total material price (uninstalled) to \$108,200, excluding the
2 investments for the fuel tank and A/C entrance cable (which are included
3 in the building account). Mr. Bissell's total installed cost of \$84,000 –
4 apparently inclusive of emergency power equipment, fuel tanks and A/C
5 entrance cable – is simply not credible.

6 Q. HAS BA-NY ATTEMPTED TO OBTAIN A BREAKDOWN OF ALL
7 POWER MATERIAL AND INSTALLATION COSTS INCLUDED IN THE
8 MODEL?

9 A. Yes. BA-NY requested a breakdown of these costs in a data request, but
10 was not provided this information.³²

11 Q. IS IT POSSIBLE THAT THE EMERGENCY LIGHTS AND CONDUIT
12 WOULD BE INCLUDED IN THE BUILDING COST DATA?

13 A. In light of what BA-NY has learned about the age of the R.S. Means data
14 and the inability to verify what costs are included or excluded, it would be
15 inappropriate to assume that such costs are included. Additionally,
16 conduit and emergency lighting are generally installed with the power
17 plant.

18 Q. DO YOU NOTE ANYTHING ELSE THAT YOU CONSIDER FLAWED IN
19 THE AT&T/MCI POWER CALCULATIONS?

³² AT&T Responses to NYT-ATT-449 and NYT-ATT-452.

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1 A. Yes. The amperage rating for the BDFB is 1200 amps and the total
2 installed investment for this unit is \$20,000. The proper way to determine
3 the unit investment for this equipment is to divide the \$20,000 by the
4 1200 amperage rating, which would yield a unit investment of \$16.66 per
5 amp. The AT&T/MCI Model, by contrast, calculates the unit investments
6 by dividing the total installed investment of \$20,000 by the total stated
7 amperage of the power plant or 2500. That calculation yields a unit
8 investment of \$8.00 per amp. The denominator in this calculation (2500
9 amps) is more than twice the total amperage rating of the BDFB (1200
10 amps) and understates investment by more than half. In fact, after Bell
11 Atlantic pointed out in a Maryland collocation proceeding that this
12 calculation was wrong, AT&T/MCI admitted the error and corrected its
13 Model.

14 Q. DO THE SAME PROBLEMS EXIST IN THE 4000 AMP PLANT?

15 A. Yes.

16 Q. DO THE SAME PROBLEMS EXIST IN THE 2500 AMP AND 4000 AMP
17 POWER PLANT CALCULATIONS AS THEY RELATE TO VIRTUAL
18 COLLOCATION?

19 A. Yes. Except in that portion of the Model, the BDFB calculation problem
20 described above is exaggerated because the capacity of the BDFB is

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1 lower than that for physical collocation power in the Model (600 amps
2 compared to 1200 amps).

3 Q. ARE THERE ANY OTHER CONCERNS WITH THE MODEL'S POWER
4 PLANT CONFIGURATION?

5 A. Yes. Mr. Bissell and his subject matter experts believe that it is proper to
6 serve 100 amps DC power from a BDFB. BA-NY's BDFBs, however,
7 serve only up to 70 amps. BA-NY's engineering practice therefore is to
8 serve single power feeds of greater than 70 amps by connecting the cable
9 back to the power plant. Thus, because collocators typically request more
10 than 70 amps – even up to 300 amps – the Model's use of a BDFB is
11 flawed.

12 Q. WHAT OTHER POWER COSTS ARE OMITTED FROM THE MODEL?

13 A. There is no indication that all of the transportation, warehousing and
14 rigging costs required to install a power plant are included in the Model.
15 For example, the central office diagram in the Model's documentation
16 shows that the power plant resides on the second floor. There is no
17 statement in the documentation to show that the vendor's quote includes
18 the cost for the required transportation as well as local hauling and
19 hoisting to place this heavy equipment on the second floor.

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1 Q. PLEASE SUMMARIZE THE REASONS THE COMMISSION SHOULD
2 REJECT THE POWER PLANT COSTS AS DEVELOPED IN THE
3 AT&T/MCI MODEL.

4 A. Contrary to the Model, each discrete component of a properly engineered
5 power plant carries its own unique amperage rating, so unit investments
6 must therefore be calculated on an individual basis. The Model's power
7 plant is not properly engineered and the costs are not properly developed.
8 Following the AT&T/MCI cost model methodology, which is to "lump" all
9 the investments together and divide by the stated capacity of the total
10 plant, will inevitably yield inaccurate results. BA-NY's cost study, on the
11 other hand, provides accurate costs for the power plant required for
12 collocation.

13 **F. THE MODEL'S CAGE CONSTRUCTION COSTS ARE UNDERSTATED**

14 Q. WHY SHOULD THE COMMISSION DISREGARD AT&T/MCI'S
15 PROPOSED CAGE CONSTRUCTION CHARGES?

16 A. The Commission should reject these charges in light of the fact that
17 AT&T/MCI may contract directly with a BA-NY approved vendor for the
18 cage construction. In fact, BA-NY proposes to give this responsibility to
19 the collocator. If AT&T/MCI truly believe that they have proposed
20 reasonable cage construction costs, then they should take this burden off
21 BA-NY's shoulders and construct their cages themselves.

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1 Q. DO YOU BELIEVE THAT THE MODEL PROPOSES REASONABLE
2 CAGE CONSTRUCTION CHARGES?

3 A. No. First, AT&T/MCI propose to recover cage costs through a recurring
4 charge, rather than a non-recurring charge. This rate structure is
5 unreasonable. Indeed, the Model uses a 47-year capital recovery period.
6 To ensure that BA-NY recovers the costs it incurs in constructing a cage
7 for the collocator, BA-NY should be paid up front by the collocator in the
8 form of a non-recurring charge. If these cage costs were recovered
9 through a recurring charge over 47 years – as proposed by AT&T/MCI –
10 then BA-NY would bear the risk that the CLEC would abandon the cage
11 and leave BA-NY with the stranded investment. There is no justification
12 for requiring BA-NY to bear this risk.

13 Q. DO YOU AGREE WITH AT&T/MCI'S ASSERTION THAT REQUIRING UP
14 FRONT CAGE CONSTRUCTION CHARGES WOULD BE A BARRIER
15 TO ENTRY? [KCLICK AT 11-12]

16 A. No. Cage construction costs are not a barrier to entry. Facilities-based
17 entry into the local exchange market is not cheap and requires a
18 significant investment. The fact that collocation already exists in
19 numerous BA-NY central offices proves that cage construction costs are
20 not a barrier to entry.

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1 In addition, BA-NY has already filed with the Commission a non-recurring
2 charge installment plan. Under this plan, CLECs with under \$2 billion
3 dollars in annual telecommunications-related revenue are eligible to pay
4 all non-recurring charges over an 18 month period. This installment plan
5 alleviates any burden on the smaller CLECs of paying non-recurring
6 charges at one time.

7 Q. WHAT IS YOUR RESPONSE TO AT&T/MCI'S ARGUMENT THAT THE
8 CAGE IS REUSABLE AND THEREFORE A RECURRING CHARGE IS
9 APPROPRIATE?

10 A. Regardless of whether the cage is reusable, the costs for cage
11 construction should be recovered through a non-recurring charge. This
12 rate structure ensures that the cost causer – the requesting collocator –
13 bears the responsibility of paying BA-NY for its out-of pocket costs. In the
14 event that the collocator vacates its cage and the cage is in fact reused by
15 another collocator, BA-NY has agreed to collect the cage costs from the
16 second collocator and reimburse the first collocator.³³ This provision
17 makes far more sense than requiring BA-NY to bear the risk that no other
18 collocator will occupy the vacated cage, leaving BA-NY with stranded
19 investment. In addition, a recurring rate structure would create a

³³ New York Telephone Company, P.S.C. No. 914, Section 5.1.12(i), Page 1.25.

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1 disincentive for the collocator to forecast correctly because the collocator
2 would not be held accountable for cage costs.

3 Q. THE MODEL ASSUMES THAT BA-NY WILL PROVISION 4 COLLOCATION
4 CAGES AT ONE TIME. HOW DOES THIS ASSUMPTION AFFECT
5 COLLOCATION COSTS?

6 A. By assuming that 4 collocation spaces will be simultaneously built, the
7 Model inappropriately spreads some planning and cage construction
8 costs among all collocators rather than the specific collocator causing the
9 cost. For example, the Model installs one electrical panel for the four
10 collocation cages regardless of the needs of each collocator. This dilutes
11 the costs by spreading this cost across all cages. The Model also
12 proposes to recover the planning costs for the first collocation space
13 request from the occupiers of the 4 collocation spaces.

14 Q. DO YOU AGREE WITH THE ASSUMPTION MADE IN THE MODEL
15 THAT BA-NY SHOULD PROVISION 4 COLLOCATION CAGES PER
16 REQUEST? [KLICK AT 9; BISSELL AT 15]

17 A. No. The assumption that BA-NY will provision 4 collocation cages at one
18 time in one collocation area is not realistic. Although there are certainly a
19 handful of popular BA-NY central offices – primarily in Manhattan – that
20 have multiple collocators, it is unlikely that 4 collocators will occupy each
21 and every central office requested. The most recent information available

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1 shows that 17 of the current 33 BA-NY central offices with collocation
2 have two or fewer collocators. And 64% of the central offices have 3
3 collocators or less.

4 Now that many of BA-NY's largest central offices already accommodate
5 multiple collocators, it is unlikely that the central offices requested in the
6 future will be requested by 4 collocators. Thus, the assumption that BA-
7 NY should construct four 100 square foot collocation cages each time it
8 receives a collocation request is flawed. There is no evidence to support
9 this level of demand.

10 Most important, even if 4 collocators eventually request the same central
11 office, it is extremely unlikely that they will do so all at the same time.

12 Thus, not all 4 cages will be fully occupied over the cost recovery period,
13 leaving BA-NY with underrecovered investment. The Model's attempt to
14 address this problem through the use of an occupancy factor is creative,
15 but flawed. There is no basis for requiring BA-NY to bear the risk of
16 stranded investment when the collocators have the information regarding
17 where and when they want to collocate. In fact, BA-NY requested AT&T
18 and MCI's forecasts of future collocation plans in New York and was told
19 that none exist.

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1 Q. PLEASE EXPLAIN THE MODEL'S OCCUPANCY FACTOR.

2 A. The Model applies a user-adjustable occupancy factor to certain shared
3 costs to recover collocation costs for periods during the year when there
4 might not be full occupancy of all the space. This recovery is
5 accomplished by dividing certain shared costs, such as cage preparation,
6 by the occupancy factor, which then increases the cost of the occupied
7 space.

8 Q. WHAT IS THE BASIS OF THE MODEL'S 75% OCCUPANCY FACTOR?

9 A. There is no basis whatsoever for the Model's proposed 75% occupancy
10 factor and it would be difficult to calculate such a factor to account
11 sufficiently for all periods in which the cages would be unoccupied. In
12 fact, the Model's developers have stated that the occupancy factor is
13 based on their judgment, but there is no historical average or
14 documentation to support this value. As discussed above, there is simply
15 no basis to conclude that the 3 other cages will be occupied over the
16 recovery period.

17 Q. DOES THE MODEL'S OCCUPANCY FACTOR ADEQUATELY
18 ACCOUNT FOR VACANCIES ONCE A NEW COLLOCATION CAGE IS
19 CONSTRUCTED?

20 A. BA-NY has no assurance that if it builds the four collocation cages to the
21 first collocater's particular specifications, subsequent collocaters will ever

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1 occupy the space or will accept those precise specifications. Use of an
2 occupancy factor would not only fail to recover these costs, but would shift
3 costs away from the cost causer.

4 Q. ARE THERE ANY OTHER REASONS WHY BUILDING FOUR 100
5 SQUARE FOOT CAGES EVERY TIME THERE IS A COLLOCATION
6 REQUEST IS IMPRACTICABLE?

7 A. Yes. It simply makes no sense to require BA-NY to build 4 cages every
8 time it receives a collocation request. For example, if BA-NY builds four
9 100 square foot cages, and the second collocator requests a 200 square
10 foot cage, BA-NY will be required to reconfigure the 100 square foot
11 cages to accommodate such a request. These costs are not included in
12 the Model. Thus, while it may on occasion make sense to build more than
13 one cage at one time in a particular central office, requiring BA-NY to build
14 four 100 square foot cages every time there is a collocation request –
15 regardless of forecasted demand – is absurd. In fact, only 43 of the
16 current 101 cages in New York are 100 square feet. Moreover, in 1996
17 and 1997, most of the cages requested were for 200 square feet or larger.

18 Q. WHAT METHODOLOGY SHOULD THE COMMISSION ADOPT
19 INSTEAD OF THE MODEL'S 4 CAGES PER CENTRAL OFFICE
20 ASSUMPTION?

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1 A. The only reasonable way for BA-NY to be compensated for the up-front
2 costs that it incurs to provide a carrier with physical collocation is to collect
3 these costs in a non-recurring charge on a cage-by-cage basis.

4 Q. DOES THE MODEL UNDERSTATE THE COSTS OF CONSTRUCTING A
5 100 SQUARE FOOT CAGE?

6 A. Yes. As BA-NY demonstrated in its cost study submitted on March 27,
7 1998, the average costs of constructing a 100 square foot cage in an
8 existing collocation room is \$23,063. The Model, on the other hand,
9 calculates an average cost for one 100 square foot cage of \$2,727 to
10 \$3,204.

11 **G. THE MODEL'S CABLE AND TERMINATION COSTS ARE ERRONEOUS**

12 **1. Cable Lengths**

13 Q. DO YOU AGREE WITH AT&T/MCI'S ASSERTION THAT BA-NY'S
14 CABLE LENGTHS SHOULD BE ARTIFICIALLY LIMITED TO NO MORE
15 THAN 165 FEET? [BISSELL AT 17]

16 A. No. The Model uses a connectivity length of 165 feet for physical
17 collocation (for all service levels except fiber) which bears no relation to
18 actual practice and is designed solely to lower the collocator's costs. BA-
19 NY's actual average cable length from the physical collocation area to the
20 MDF is 258.4 feet for voice grade and DS0 i276.8 feet for DS1, and 265.8

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1 feet for DS3.³⁴ Cable lengths will, of course, vary depending on the
2 particular central office because, for example, the collocator's equipment
3 must be located in a secure area which often requires it to be placed on a
4 different floor from the transmission equipment.

5 Q. EXPLAIN HOW CONNECTIVITY LENGTHS ARE FACTORED INTO THE
6 MODEL.

7 A. The Model assumes that some cables, such as the fiber from the cable
8 vault to the collocation space, are provided by the collocators, but pulled
9 and placed by BA-NY. The Model therefore calculates a labor cost, based
10 on the time that it takes to pull and place in the cable racks a specific
11 length of cable. By understating the cable length as the Model does,
12 installation costs are understated. Likewise, by assuming shorter cable
13 lengths, recurring charges for use of cable racking are understated.
14 Finally, the Model's understated cable lengths artificially decreases the
15 SAC and IAC charges.

16 Q. WHAT EFFECT DO REDUCED CABLE LENGTHS HAVE ON THE
17 COSTS PRODUCED BY THE AT&T/MCI MODEL?

18 A. Connectivity lengths are one of the most significant cost drivers in the
19 study; therefore, the understatement of these lengths results in significant

³⁴ The average cable lengths were calculated by analyzing actual data from two-thirds of BA-NY's central offices, representing over 80% of the existing collocation arrangements in New York.

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1 understatement of the costs of providing collocation services. For
2 example, installation costs increase 63% when BA-NY's actual cable
3 lengths are used in place of the Model's lengths.

4 Q. MR. BISSELL CLAIMS THAT BA-NY'S CABLE LENGTHS SHOULD BE
5 ARBITRARILY SHORTENED BECAUSE BA-NY'S "POLICY" OF
6 PLACING ALL COLLOCATORS IN ONE ROOM INCREASES CABLE
7 LENGTHS. [BISSELL AT 12] WHAT IS YOUR RESPONSE?

8 A. Mr. Bissell is wrong. Contrary to his assertions, BA-NY does not insist
9 that all collocators be placed in one collocation room, although in many
10 cases this practice is the most efficient and reduces costs to all
11 collocators. It is less costly to condition one collocation room than to
12 condition multiple rooms. Accordingly, due to these economies of scale,
13 the costs to the collocators are lower. These lower costs far outweigh the
14 costs associated with additional cabling.

15 Q. WHAT IS YOUR RESPONSE TO MR. BISSELL'S CONTENTION THAT
16 ILECS HAVE THE INCENTIVE TO PLACE COLLOCATION SPACE FAR
17 AWAY FROM THE ILEC CROSS CONNECTS? [EX. RB-1 AT 6]

18 A. Mr. Bissell's statement makes no sense. The BA-NY space and frame
19 planning process encourages locating collocation space as close to main
20 frames and power sources as possible. BA-NY has actually ruled out
21 areas of central offices for collocation purposes due to excessive cable

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1 lengths. Indeed, AT&T/MCI were unable to provide any examples of
2 instances where BA-NY improperly rejected a space closer to its cross
3 connects in favor of a more remote location.³⁵

4 Q. DOES BA-NY HAVE LARGE AMOUNTS OF SPACE THAT IT IS
5 REFUSING TO MAKE AVAILABLE FOR COLLOCATION? [BISSELL AT
6 12-13; EXH. RB-1 AT 8, 13.]

7 A. No. Most BA-NY central offices have been around for several decades
8 and have seen the transition from electro-mechanical to Analog, ESS and
9 Digital switching systems and a variety of improvements in transport
10 technologies. However, because newer technologies require higher
11 degrees of environmental support and often different space layouts, the
12 space vacated by older vintage equipment often requires substantial
13 upgrades to become usable for newer equipment. These upgrades can
14 include new air conditioning systems, changeouts of the cable racking
15 layouts, and floor tile replacements (usually involving asbestos
16 abatement). Therefore, while space may be available for collocation, it
17 can be costly to upgrade the existing HVAC systems or provide new
18 HVAC equipment to support the collocation requirements. It may simply

³⁵ AT&T Response to NYT-ATT-399.

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- 1 be more cost effective to locate the collocators a larger distance from the
2 cross connect frames.
- 3 Q. COULD BA-NY REMOVE BLOCKED CABLE ROUTES TO MAKE ROOM
4 FOR ADDITIONAL CABLES AS SUGGESTED BY MR. BISSELL? [EX.
5 RB-1 AT 8]
- 6 A. Not necessarily. Because newer cable has been run on top of older
7 cable, some cable routes become blocked by live cable that is over dead
8 cable and thus cannot be removed without incurring excessive costs or
9 risk jeopardizing service. Where dead cable exists separate from live
10 cable, BA-NY does remove it. Thus, although BA-NY is on occasion
11 required to run longer cable routes because of congested racks, it is
12 because the racks are congested with live cable, not cable that is readily
13 removable.
- 14 Q. IS BA-NY CENTRAL OFFICE SPACE BEING USED "TEMPORARILY"
15 TO HOUSE ADMINISTRATIVE STAFF?
- 16 A. No. BA-NY has not used central office space to "temporarily" house
17 administrative staff, as AT&T/MCI suggest. BA-NY has taken aggressive
18 measures to consolidate centers and made the decision to place
19 administrative personnel in central office space because it was the most
20 efficient and permanent arrangement.

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1 **2. Utilization Rates**

2 Q. ARE THE MODEL'S CABLE AND TERMINATION UTILIZATION RATES
3 OVERSTATED?

4 A. Yes. The Model uses default utilization rates for all service levels of 85%.
5 (The Model uses this same default rate throughout the country.) This
6 utilization rate is grossly overstated and bears no relation to BA-NY actual
7 utilization rates.

8 Q. WHY IS AN 85% UTILIZATION RATE INAPPROPRIATE?

9 A. An 85% utilization rate represents an objective fill factor. "Objective fill"
10 refers to the fill criterion that triggers replacement or augmentation of
11 existing facilities; delaying replacement or augmentation beyond that point
12 would create a risk of service outages or situations whereby requests for
13 new service cannot be fulfilled.³⁶ If BA-NY actually sought to maintain its
14 network components such as cabling at the objective fill level, it would be

³⁶ The definitions of different types of fills are explained in greater detail at pages 26-27 of the Staff Memorandum dated March 8, 1995 concerning the loop cost manuals (Case No. 89-C-198):

Physical fill refers to the actual number of pairs in a cable (e.g., 300 pair) and assumes that every pair is available for use. Objective fill refers to the usable capacity, which is usually the engineering design limit. In most cases cables are engineered to exhaust at an established percentage of their physical fill (e.g., 85%) with the remaining pairs unavailable for subscriber use (i.e. found defective, or needed for testing, signaling or maintenance purposes). Average fill is related to the actual average unused capacity. It is calculated by averaging the spare capacity on the date the plant was initially placed in service and the spare capacity at objective fill level. This average is allocated to the units in use, or in the case of cable, working pair.

See also Incremental Loop Cost Manual, Section 4, at 14-15.

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1 involved in a virtually continuous process of replacement and
2 augmentation, resulting in higher costs all around. The appropriate
3 utilization rate should represent an intermediate level between the level
4 that would be experienced immediately after augmentation, and the much
5 higher level that would be experienced immediately before the following
6 augmentation. This corresponds with the concept of "average fill," and is
7 consistent with Staff's recommendation in its memorandum to the
8 Commission in the loop cost study proceeding, cited above:

9 Absent general consensus by the subcommittee [on
10 incremental costs] . . . Staff has considered the issue
11 and recommends that average fill be used in studies
12 where average statewide costs are being developed.
13 Use of the average fill factor produces forward-
14 looking unit costs designed to generate revenues that
15 will make the company whole for its investments.
16 This procedure is consistent with producing accurate
17 cost estimates for average system conditions. . . .³⁷

18 The average fill concept is also consistent with the FCC's statement in the
19 *Local Competition Order* that calculations of per-unit costs must be based
20 on "reasonable projection[s] of the actual total usage of the element."³⁸ As
21 explained above, an objective fill does not purport to be a projection of
22 *actual* usage of an element.

³⁷ Staff Memorandum, Pages 27-28.

³⁸ *Local Competition Order*, ¶ 682.

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1 Q. WHO DETERMINES WHEN CABLES SHOULD BE ADDED?

2 A. The collocator. In BA-NY's experience, collocators generally are
3 requesting additional cables and terminations at utilization levels less than
4 70% – not the 85% rate used in the Model. Basing SAC and IAC charges
5 on an 85% utilization rate, but permitting collocators to request additional
6 cabling at much lower levels, would be grossly unfair. Moreover, as
7 discussed above, even if the collocators requested additional cables at an
8 85% utilization level, the average utilization rate would be much lower.

9 Q. DOES BA-NY HAVE DATA ON ACTUAL UTILIZATION RATES?

10 A. Yes. BA-NY has collected the actual average utilization rates by service
11 level and by date the cabling was put in service. This data demonstrates
12 that a 85% utilization rate is too high.³⁹

13 Q. HOW DID BA-NY CALCULATE THE UTILIZATION RATES INCLUDED IN
14 ITS COLLOCATION COST STUDIES?

15 A. The utilization rates used in BA-NY's cost studies are discussed in
16 Section IV, below.

17 **H. THE MODEL'S BUILDING LAYOUT IS FLAWED**

18 Q. ARE THERE ANY FLAWS IN THE DESIGN OF THE IMAGINARY
19 CENTRAL OFFICE CREATED BY THE MODEL?

³⁹ This data was produced to AT&T in response to data request ATT-NYT-1245.

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1 A. Yes. The Model has several significant design flaws such as the location
2 of POT Bays and support columns which understate collocation space
3 and further undermine the credibility of the Model.

4 Q. DO YOU AGREE WITH THE MODEL'S PLACEMENT THE POT BAYS IN
5 FRONT OF THE CAGE DOORS?

6 A. No. BA-NY generally does not locate the POT Bays in front of the cage
7 doors for safety reasons, in order that the collocator's personnel may
8 enter and exit the cage without damaging the equipment. The collocation
9 common space included in the Model is therefore too small.

10 Q. DOES THE MODEL'S COLLOCATION AREA LAYOUT LIMIT GROWTH?

11 A. Yes. Under the Model's configuration, only 7 POT Bays (per 4 cages)
12 would fit in the common area if the bays are placed in front of the cage
13 doors, and only 5 POT Bays if they are not. This restriction could limit
14 collocator growth, particularly because an arrangement serving both voice
15 grade loops and Private Line service would require 2 POT Bays.

16 Q. DOES THE MODEL'S LAYOUT ADEQUATELY ACCOUNT FOR THE
17 STRUCTURAL REQUIREMENTS OF A CENTRAL OFFICE?

18 A. No. For example, the Model fails to include any space within the
19 collocation space for the structural columns. BA-NY central offices
20 typically have 1 column for a 20 square foot area. Because the
21 collocators will be required to work around these columns, the amount of

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1 collocation space required will increase. Therefore, the Model does not
2 account for siting cages and common area within those central offices
3 constructed with column bays narrower than the Model's.
4 The Model does not follow best-practices on forward-looking, efficient
5 engineering because it neither accounts for future construction, nor for the
6 future use to which the space is supposedly designed.

7 **I. THE MODEL UNDERSTATES HVAC COSTS**

8 Q. ARE THE MODEL'S HVAC COSTS PER CAGE ACCURATE?

9 A. No. The Model significantly understates HVAC costs. The Model states
10 that HVAC would cost \$1,785 per ton. BA-NY estimates, on the basis of
11 several actual installation jobs, that a new system would cost between
12 \$5,000 and \$8,000 per ton. (The higher end of this range pertains to new
13 HVAC installation in a digital switch environment.) BA-NY's estimate
14 therefore is over twice the cost as stated in the Model. The BA-NY cost
15 includes all HVAC components for a complete system including duct work,
16 diffusers, controls and balancing – all of which is assumed to be included
17 in the Model. (Modification of an existing HVAC system, where excess
18 capacity exists, would be less costly than a new installation.)
19 In addition, HVAC is generally purchased in increments of 10 tons or 30
20 tons, not 1 ton increments. If BA-NY is required to build 11 tons to satisfy
21 the CLECs' and BA-NY's service requirements, BA-NY must purchase the

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1 next level of capacity. Thus, BA-NY's real world investments are going to
2 be greater than purchasing the exact amount of HVAC needed for the
3 fantasy central office assumed in the Model.

4 **J. THE MODEL DOES NOT INCLUDE ALL LABOR HOURS REQUIRED TO DESIGN**
5 **AND PLAN COLLOCATION PROJECTS**

6 Q. DOES THE MODEL UNDERSTATE THE TIME REQUIRED FOR
7 DESIGNING AND PLANNING COLLOCATION ARRANGEMENTS.

8 A. Yes. For example, AT&T/MCI significantly underestimate the time spent
9 by BA-NY to design, plan and administer a virtual collocation project. The
10 Model assumes that 66 hours are sufficient to design and plan a virtual
11 collocation arrangement. This number is significantly understated. All of
12 the Model's engineering and implemented hours are based on the
13 judgment of AT&T employee Donna Carney, even though AT&T has had
14 little experience with the activities involved in implementing collocation in
15 BA-NY's offices because it has requested only a few cages throughout the
16 State.

17 Q. HOW MANY HOURS ARE REQUIRED TO DESIGN AND PLAN A
18 VIRTUAL INSTALLATION PROJECT?

19 A. Based on actual experience designing and planning virtual collocation
20 projects, 111 hours of engineering, real estate, and TIS management time
21 are required to implement an initial request for virtual collocation.

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1 Q. HAS THE MODEL UNDERESTIMATED THE TIME REQUIRED TO
2 DESIGN AND PLAN A PHYSICAL COLLOCATION PROJECT?

3 A. Yes. The Model includes only 52 hours to design and implement a
4 physical collocation arrangement. By contrast, based on BA-NY's
5 experience implementing actual collocation projects, 79.5 hours are
6 actually required (for initial projects).

7 Q. ARE THERE ANY OTHER PROBLEMS WITH THE MODEL'S
8 ENGINEERING AND IMPLEMENTATION CHARGES?

9 A. Yes. Because the Model builds 4 cages at one time, it spreads the costs
10 of designing and planning the physical collocation space among 4
11 collocators. In most instances, however, BA-NY will build one cage at a
12 time, and will thus incur separate design and planning costs. BA-NY
13 recognizes that the first collocation job in a particular central office will
14 require more time than subsequent jobs, which is why BA-NY has
15 calculated separate design and planning charges.⁴⁰

16 **K. THE MODEL USES INCORRECT LABOR RATES**

17 Q. DOES THE MODEL USES INCORRECT LABOR RATES?

18 A. Yes. Several of the Model's labor rates are inconsistent with this
19 Commission's ruling in Opinion No. 97-2.

⁴⁰ Workpaper 1.0, Part A, Section 1, Page 2.

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1 For example, the Model uses incorrect job functions as well as labor rates
2 for its engineering and implementation fees (particularly for the central
3 office engineer). In contrast, BA-NY's labor rates are consistent with this
4 Commission's rulings in Opinion No. 97-2 and are properly assigned to
5 the individuals performing the tasks.

6 Q. DO YOU AGREE WITH AT&T/MCI'S CLAIM THAT THE APPROPRIATE
7 ESCORT LABOR RATE IS THAT FOR A FRAME TECHNICIAN?

8 [EXH. JCK-1 AT 6]

9 A. No. The Frame Technician is not assigned responsibility for the
10 transmission equipment within central offices buildings. Rather, BA-NY
11 Central Office Technicians are responsible for knowing the specifications
12 of all the transmission equipment and can escort the collocator to the
13 appropriate equipment and answer questions. AT&T/MCI's attempt to
14 lower collocation costs without regard to the actual job responsibilities of
15 central office personnel should be rejected.

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1 **IV. CORRECTIONS TO BA-NY'S COLLOCATION COST STUDIES**

2 Q. DOES BA-NY HAVE ANY CORRECTIONS TO ITS COSTS STUDIES?

3 A. Yes. BA-NY would like to correct the utilization rates used to calculate the
4 Service Access Connection ("SAC") and Interconnection Access
5 Connection ("IAC") charges.

6 Q. PLEASE EXPLAIN BA-NY'S CORRECTIONS.

7 A. BA-NY has slightly revised its SAC charges in the Physical Collocation
8 Cost Study to reflect the latest available utilization rate data associated
9 with cable and frame terminations. BA-NY used as an average utilization
10 rate the actual utilizations rates for collocation arrangements existing for
11 more than 24 months for each service level. This average represents a
12 forward-looking rate because it reflects the utilization cycle. That is, it
13 reflects the fact that utilizations increase over time and then drop again as
14 cables and terminations are added. Relying on arrangements that are at
15 least two years old also accounts for the fact that collocators need
16 reasonable time to grow into their collocation arrangements. BA-NY's
17 current actual utilization rates are much lower.
18 BA-NY has amended its utilization rates as follows:

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<u>Service</u>	<u>Revised Study</u>	
	<u>Utilization Rate</u>	<u>Rec. Cost</u>
2-wire VG	26%	\$.39
2-wire DSO	26%	.39
4-wire DSO	26%	.78
DS1	52%	1.91
DS3	56%	44.35 ⁴¹

1 Q. DOES BA-NY HAVE ANY CHANGES TO MAKE TO ITS IAC CHARGES?

2 A. Yes. BA-NY has used the utilization rates for DS1 and DS3 SACs as an
3 estimate of the utilization rates for the DS1 and DS3 IACs. Therefore,
4 these IAC charges have been amended to reflect the above changes to
5 the SACs.⁴²

6 Q. DOES BA-NY HAVE CORRECTIONS TO ITS CABLE SUPPORT
7 CHARGE?

8 A. Yes. In the original cost study filed on March 27, 1998, BA-NY
9 inadvertently included the investment associated with the 2 cable holes
10 and associated patching (lines 2 and 3 of the study) in the installed
11 investment for cable rack (line 1). This error increased the installed

⁴¹ Workpaper 2.0, Part A, Section 3, Page 2, Line 4; Workpaper 2.0, Part A, Section 3, Page 3, Line 4.

⁴² Workpaper 2.0, Part A, Section 3, Pages 2-3.

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1 investment by \$5,200. This error has been corrected in the revised cost
2 study. This correction reduces the total monthly cable rack cost by \$0.04
3 per foot. The new cost is \$0.17.⁴³

4 Q. PLEASE EXPLAIN THE CHANGES TO THE VIRTUAL COLLOCATION
5 ENGINEERING AND IMPLEMENTATION FEES.

6 A. BA-NY's virtual collocation engineering and implementation fees have
7 been revised to reflect a change in work organization responsibilities and
8 a different labor rate. In the original study, BA-NY erroneously attributed
9 the Switch FOMS and LFACs database functions to "Network and Central
10 Office Eng." In the revised study, this job function and associated labor
11 rate is properly assigned to an outside plant engineer. The hours were
12 also reduced by one hour. The effect of this change is to reduce the BA-
13 NY engineering and implementation fee (initial, initial – CLEC contracts,
14 and Augment – Partial Cable).⁴⁴

⁴³ Workpaper 1.0, Part A, Section 1, Page 5, Line 17.

⁴⁴ Workpaper 3.0, Part A, Section 3, Page 1, Lines 17 and 18; Workpaper 3.0, Part A, Section 3, Page 2,
(Continued . . .)

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(Continued . . .)

lines 16 and 17; and Workpaper 3.0, Part A, Section 3, Page 3, Lines 16 and 17.

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- 1 Q. DOES THIS CONCLUDE THE PANEL'S TESTIMONY?
- 2 A. Yes.